

# PATENT ABSTRACTS OF JAPAN

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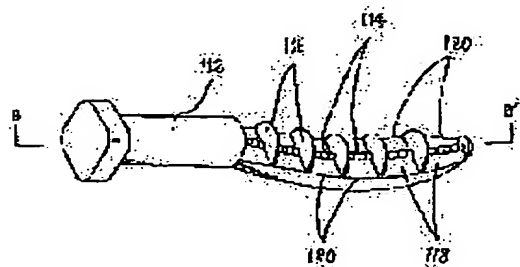
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## (54) FORMING TOOL FOR EYELASHES

(57)Abstract:

**PROBLEM TO BE SOLVED:** To quickly form eyelashes by curving and forming a brush part formed by inserting a heating element to the upper end of a silicone part similarly to the bend of an eyeball and forming a formation supporting part of the eyelashes in a circular arcuate shape at both left and right ends of the brush part.

**SOLUTION:** Connection to a heating tube 112 is performed and the silicone part 118 formed by mixing the pigment of a heat extinction property is installed on an inner side. The brush part is formed by inserting the heating element 114 to the upper end of the silicon part 118 and the brush part is curved similarly to the bend of the eyeball. Then, a safety projection 116 formed so as to divide the heating element 114 with a prescribed interval is provided and the formation supporting part 120 of the eyelashes in the appropriate circular arcuate shape is formed at both left and right ends of the brush part. Thus, since the eyelashes are quickly and easily formed, the eyelashes in any shape can easily be formed and convenience is improved.



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CLAIMS

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[Claim(s)]

[Claim 1] A dry cell 108 is made to build in the interior of the tongue section 102 of the body 100 combined with the tongue section 102 and a protective cap 110, and it was made to connect with the heating tube 112 of a point with the automatic switch 106 currently installed outside. In the cilium former by which the insertion configuration of the heating element 114 which coiled and formed exotherm in the brush section 104 which forms a pilot light 118 to the upper limit of a heating tube 112, and is formed in one side is carried out Model the brush section 104 which inserts and forms the heating element 114 in the silicon section 118 which connects with the above-mentioned heating tube 112, and is installed, and which blended and made the pigment of heat extinction nature inside, and its upper limit on crookedness of an eyeball, and it is curved and formed in it. the former of the cilium characterized by constituting so that the insurance projection 116 formed so that it might often be alike and the above-mentioned heating element could be exposed may be formed and the shaping supporter 120 of the cilium tintured with the suitable radii form for the right-and-left both ends of the above-mentioned brush section 104 may be formed.

[Claim 2] In the 1st term inside the above-mentioned body 100 When a power source is operated, make a display lamp 112 turn on, and it indicates that the device is operating normal. It enables it to maintain 100 minutes or more than it to 1.1V which are - voltage when only the power of the range between 0.3A-1A exhausts exotherm and die length is adjusted. Moreover, the former of the cilium characterized by inserting that from which the tint of the circuit where it is made for a display lamp to repeat flashing by end voltage, or a display lamp changes, and constituting the circuit apparatus which tells the exchange stage of a dry cell.

[Claim 3] The cilium former characterized by constituting the circuit apparatus which can be kept constant while the temperature of the heating element 114 formed in the brush section 104 which connects and is installed by the heating tube inside the above-mentioned body 100 in the 1st term and the 2nd term at the time of power-source actuation is 8 degrees C - 120 degrees C.

[Claim 4] The cilium former characterized by being constituted so that a color may change, if the silicon section 118 with the very low thermal conductivity which blended and made the pigment of a heat extinction line is formed in the upper limit of the brush section 104 which connects with a heating tube and is installed in the 1st term and a heating element 114 results in constant temperature.

[Claim 5] The cilium former characterized by constituting so that the shaping supporter 120 of the cilium which carried out the radii condition of 3 degree inside and outside may be formed in the right-and-left both ends of the brush section 104 in the 1st term.

[Claim 6] The cilium former characterized by the configuration that the insurance projection 116 of the hemicycle formed in suitable spacing so that the heating element 114 which coiled and made the exotherm currently inserted and formed in the silicon section 118 which blended and made the pigment of heat extinction nature might be exposed to the upper limit of the brush section 104 in the 1st term is formed.

[Claim 7] It is the cilium former characterized by constituting so that, as for the above-

mentioned circuit apparatus, exotherm may exhaust only the power of the range between 0.3A-1A in the 1st term and the 2nd term.

[Claim 8] It is the cilium former characterized by being constituted so that the above-mentioned circuit apparatus may maintain 100 minutes or more than it in the 1st term and the 2nd term to 1.1V which are end voltage.

[Claim 9] The above-mentioned circuit apparatus is the cilium former characterized by being constituted so that it may be made for a display lamp to repeat flashing by end voltage in the 1st term and the 2nd term and the exchange stage of a dry cell may be told.

[Claim 10] It is the cilium former characterized by having inserted that from which, as for the above-mentioned circuit apparatus, the tint of a display lamp changes by end voltage in the 1st term and the 2nd term, and constituting so that the exchange stage of a dry cell may be told.

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DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[Field of the Invention] Although it connects with a heating tube and this invention is installed about the former of cilium if it says in more detail Although model the silicon section which blended and made the pigment of heat extinction nature inside, and the brush section by which the heating element is inserted in the upper case on crookedness of an eyeball, it is incurvated, and it forms, and the front face of the upper part of the above-mentioned silicon section is formed so that somewhat larger spacing may be maintained The insurance projection constituted so that it might often be alike and the above-mentioned heating element might be exposed is formed. The shaping supporter of cilium is formed, and it makes and constitutes so that the both ends of right and left of the above-mentioned brush section may become a suitable radii form. It can be made to make universal shaping of the cilium which maintained balance uniformly and on the whole so that the needs of all the users that have the crookedness side of the eyeball which is different, respectively at the actual time of use could be made to satisfy. Moreover, it is made to be early heated so that shaping of cilium can be performed quickly and simply. After it enables it to identify the condition of heat conduction easily with the naked eye and mascara becomes hard, Making it fix simply using the shaping supporter of cilium etc. can make shaping of the cilium of any forms easy. The cilium supporter which enables it to maintain a long duration shaping condition is installed, and the added value of the whole former of the cilium produced as a result using the technique of this invention is raised. Not to mention the salability and quality of a product It is related with the former of the cilium which combine and enabled it to improve expedient nature, dependability, etc.

[0002]

[Description of the Prior Art] Generally, although the shaping instrument of old cilium applied shaping liquid to cilium using the needle which laid the shaping instrument of a scissors mold, and heat, and the brush with shaping liquid (for example, mascara liquid) and has fabricated cilium When the problem from which cilium become easy to escape strongly in response to the fact that a pressure when using the above-mentioned cilium clip sets, heat is laid on a metal like the above-mentioned needle and it fabricates cilium When temperature control was not suitable, cilium burned, problems, such as undertaking a burn to the surroundings of an eye, were caused and the above-mentioned shaping liquid was used, since cilium \*\*\*\*\* (ed) and cilium did not go up automatically, there were troubles, like the surroundings of an eye become unnatural sensibility.

[0003] Then, although there is a technique for which it applied variously until now in order to be able to make shaping of cilium easy, solving such a problem To the South Korean patent application No. 24771 [ 96 to ] for which these people applied before, as illustrated by drawing 1 and drawing 2 A dry cell (12) is built in the interior of the tongue (10) of the body (1) which the parts (13) of a tongue (10) and a cover have combined, and it is made to connect with the heating tube (20) of a point with the actuation switch (11) currently installed outside. the brush (22) of the spiral mold which forms a pilot light (23) in the upper limit of a heating tube (20), and is formed at one side -- often -- being alike -- the former of the cilium which coiled exotherm

around the spiral mold, formed it and were covered in the heating element (21) is described. [0004] However, the heating element (21) currently connected and installed in the part of a brush (22) was heated, just by the conventional invention constituted in this way having heated the brush (22) appropriately, it could be used effectively, and when taking time amount in connection with this, it caused the problem of the ability not to make a consumer's needs fully satisfy. Moreover, without taking an example in the property that cilium are growing irregularly variously by people Since it becomes impossible to contact the heating element (21) with which the above-mentioned brush (22) is simply formed by screw-thread Yamagata style of the form of the character of 1, and most users fabricate cilium effectively at the time of actual use for a while Since it is the method with which shaping of cilium, on the whole, causes the problem that it does not become fixed to homogeneity, moreover as a result, and exotherm (21) heats a brush (22) Since the non-insurance-approach which must distinguish whether it is used directly by hand must be taken when a consumer uses it It carries out, and the part of the existing brush (22) always generates heat, melts the mascara with the problem which causes inconvenient [ by this ] etc. currently attached to cilium, and the function to carry out mending of the cilium is only carried out. Special structure of making cilium with mascara fixing or hardening cannot be found. There was a problem which cannot perform effective shaping and the various problems of \*\*\*\*\* for a difficulty were in the salability and quality nature of the whole former of cilium which are produced as a result using a Prior art.

[0005]

[Problem(s) to be Solved by the Invention] Therefore, this invention is what took into consideration and invented the above troubles. Cilium grow in \*\*\*\* which is different, respectively at the time of actual use, and it enables it to fabricate universally the cilium which maintained balance uniformly and on the whole so that the needs of all users with the crookedness side of the eyeball which is different, respectively might be satisfied. Again Can be made to perform shaping of cilium quickly and it enables it to identify the condition of heat conduction easily with the naked eye. Make it mascara become hard easily and it enables it to be able to continue maintaining the fabricated cilium at a fixed gestalt. The purpose is that it offers the former of the cilium which unite and enabled it to improve expedient nature, dependability, etc. as well as the salability and quality of a product which raise the added value of the whole former of the cilium produced as a result using the technique of this invention.

[0006] The purpose of such this invention builds a dry cell in the interior of the tongue section of the body combined with the tongue section and a protective cap, and it is made to connect with the heating tube of a point with the actuation switch currently installed outside. In the former of the cilium which the heating element which coiled and formed exotherm in the brush section which forms a pilot light in the upper limit of a heating tube, and is formed in one side is inserted, and are constituted Model the brush section which inserts and forms the heating element in the silicon section which connects with the above-mentioned heating tube and is installed, and which blended and made the pigment of heat extinction nature inside, and its upper limit on crookedness of an eyeball, and it is curved and formed in it. [0007] which is what is going to offer the former of the cilium constituted so that the insurance projection formed so that it might often be alike and the above-mentioned heating element could be exposed might be formed and the shaping supporter of the cilium tintured with the suitable radii form for the right-and-left both ends of the above-mentioned brush section might be formed It connects with the above-mentioned heating tube, and is installed. The silicon section which blended and made the pigment of heat extinction nature inside, and on it, curve at the include angle similar to crookedness of an external protrusion of an eyeball, and the brush section which inserted the heating element around which the nickel-Cr line was coiled, and has been formed is formed. it is formed in one front face of the reentrant of the upper limit section of the above-mentioned brush section so that larger spacing may be maintained, but the insurance projection currently formed so that it may often be alike and the above-mentioned heating element can be exposed is formed, and it will be done, if it constitutes so that the supporter of cilium may be formed in the outside of the both ends of the above-mentioned brush section.

[0008]

[The configuration and operation] of invention It is as follows if it explains a little more concretely based on the drawing which attached the desirable example of this invention below. [0009] This invention builds a dry cell (108) in the interior of the tongue section (102) of the body (100) combined with the tongue section (102) and a protective cap (110), and connects it with the heating tube (112) of a point with the actuation switch (106) currently installed outside as shown in drawing 3 , drawing 4 , drawing 5 , drawing 6 , and drawing 7 . The former showing what the silicon section (118) consists of by inserting in the middle of cilium is formed between the heating elements (114) which coiled and formed exotherm in the brush section (104) which forms a pilot light (122) in the upper limit of a heating tube (112), and is formed in one side. Therefore, while a heating element maintains the temperature of 8 degrees C - 120 degrees C, the silicon section is made hot in temperature of 4 degrees C - 60 degrees C, and has the effectiveness it not only can fabricate cilium effectively, but that burn at proper temperature and the tint of the silicon section changes.

[0010] On the other hand, it connects with the above-mentioned heating tube (112), and is installed. The brush section (104) in which the thermal conductivity which blended and made the pigment of heat extinction nature inside inserts and forms the heating element (114) in the upper limit of the very low silicon section (118) is modeled with crookedness of an eyeball, is incurvated, and it forms, and it is formed in the front face of the upper part of the above-mentioned silicon section (118) so that spacing somewhat larger so that shaping of cilium can form well may be maintained. the insurance projection (116) currently formed so that it may often be alike and the above-mentioned heating element (114) can be exposed is formed, and the supporter (120) of cilium is formed in the right-and-left both ends of the above-mentioned brush section (104) so that it may become a suitable radii form. Moreover, if a power source is operated inside the above-mentioned body (100) as illustrated by drawing 8 , a display lamp (118) will light up. If indicate that a device is normal and is operating, exotherm is made to require only consumption of the power between 0.3A-1A and the diameter and die length of a heat ray are adjusted And that from which the tint of the circuit where it enables it to maintain 100 minutes or more than it in to 1.1V which are - voltage, and a display lamp repeats flashing by end voltage, or a display lamp changes is inserted. They are the circuit apparatus which the circuit apparatus which tells the exchange stage of a dry cell is constituted, inserts the circuit which keeps the temperature of a heating element constant in the range between 8 degrees C - 120 degrees C collectively, and maintains proper temperature, or the thing constituted.

[0011] Thus, it connects with the above-mentioned heating tube (112), and this invention constituted is installed, as mentioned above. The brush section (104) which inserts and forms the heating element (114) constituted by the upper limit of the silicon section which blended and made the pigment of heat extinction nature inside is modeled on crookedness of an eyeball, and is incurvated, and it forms, and it is formed in the front face of the upper part of the above-mentioned brush section (104) so that somewhat larger spacing may be maintained. since cilium are growing in the direction which forms the insurance projection (116) currently formed so that it may often be alike and the above-mentioned heating element (104) can be exposed, and is different, respectively at the time of actual use By being able to be made to make universal shaping of the cilium which maintained balance efficiently on the whole so that the needs of all users with the crookedness side of a different eyeball may be made to satisfy, and being early heated within several seconds after connection of a power source Since shaping of cilium enables it to be able to do conveniently quickly, the silicon section (118) which blended and made the pigment of heat extinction nature can be formed in the lower limit of the above-mentioned heating element (114) and the condition of heat conduction can be identified easily with the naked eye Not to mention making it the easy temperature for shaping of cilium known, constituting so that the shaping supporter (120) of the cilium of a radii form may be formed in the right-and-left both ends of the above-mentioned brush section (104), and hardening mascara simply

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range between 0.3A-1A exhausts exotherm and die length is adjusted. Moreover, it enables it to keep the temperature of a heating element constant among 8 degrees C - 120 degrees C at the same time it inserts that from which the tint of the circuit where it is made for a display lamp to repeat flashing by end voltage, or a display lamp changes and tells the exchange stage of a dry cell.

[0012]

[Effect of the Invention] Therefore, as explained above, this invention is connected with a heating tube and it is installed, but the brush section which inserts and forms the heating element in the upper limit of the silicon section which blended and made the pigment of heat extinction nature inside is made into the form which imitated crookedness of an eyeball and curved, and the front face of the upper part of the above-mentioned brush section is formed so that somewhat large spacing may be maintained. The insurance projection currently formed so that it may often be alike and the above-mentioned heating element can be exposed is formed. It is constituted so that the supporter of the cilium tintured with the suitable radii form may be formed in the right-and-left both ends of the above-mentioned brush section. It enables it to fabricate universally the cilium which maintained balance on the whole uniform again so that all the needs of a user with the crookedness side of the eyeball which cilium grow in the direction which is different, respectively at the time of actual use, or is different each one could be made to satisfy. Again Enable it to fabricate quick and easy cilium universally, and it enables it to identify the condition of heat conduction easily with the naked eye. Harden mascara easily and shaping of the cilium of any conditions does not come out as much as possible easily. the effectiveness maintain a prolonged shaping condition and raised the added value of the whole cilium former produced as a result using the technique of this invention, and it enabled it to raise expedient nature, dependability, etc. collectively as well as the salability and quality nature of a product — \*\*\*\*\* — it is made like.

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DESCRIPTION OF DRAWINGS

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[Brief Description of the Drawings]

[Drawing 1] It is a decomposition perspective view illustrating the appearance condition of the former of the conventional cilium.

[Drawing 2] It is a sectional view illustrating the internal structure of the former of the conventional cilium.

[Drawing 3] It is a decomposition perspective view illustrating the appearance condition of the former of the cilium of this invention 1 example.

[Drawing 4] It is a sectional view illustrating the internal structure of the former of the cilium of this invention 1 example.

[Drawing 5] It is the sectional view of an A-A'line of this invention 1 example.

[Drawing 6] It is a perspective view illustrating the chip part of the former of the cilium of this invention 1 example.

[Drawing 7] It is the sectional view of the B-B'line illustrating the chip part of the former of the cilium of this invention 1 example.

[Drawing 8] It is a circuit diagram illustrating the configuration of the circuit apparatus of this invention 1 example.

[Description of Notations]

100: Body 102: Tongue section

104: Brush section 106: Actuation switch

108: Dry cell 110: Protective cap

112: Heating tube 114: Heating element

116: Insurance projection 118: Silicon section

120: Shaping supporter of cilium 122: Display lamp

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## \* NOTICES \*

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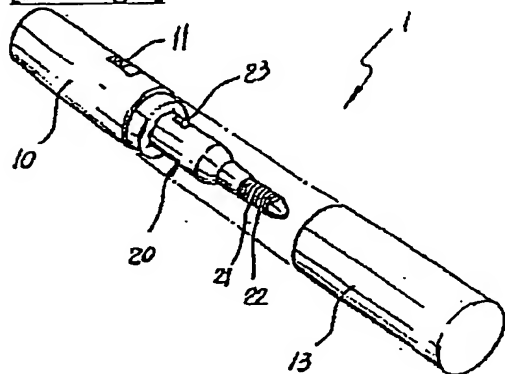
1.This document has been translated by computer. So the translation may not reflect the original precisely.

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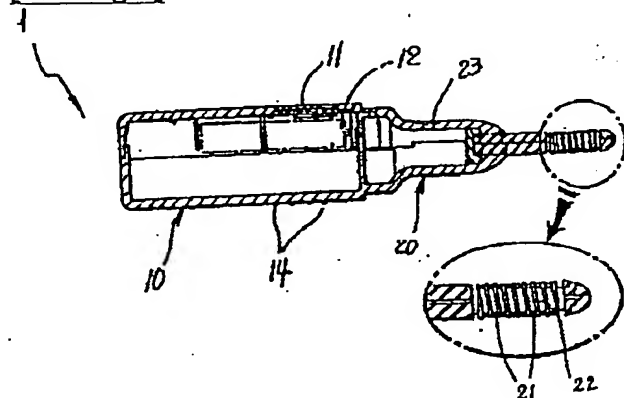
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## DRAWINGS

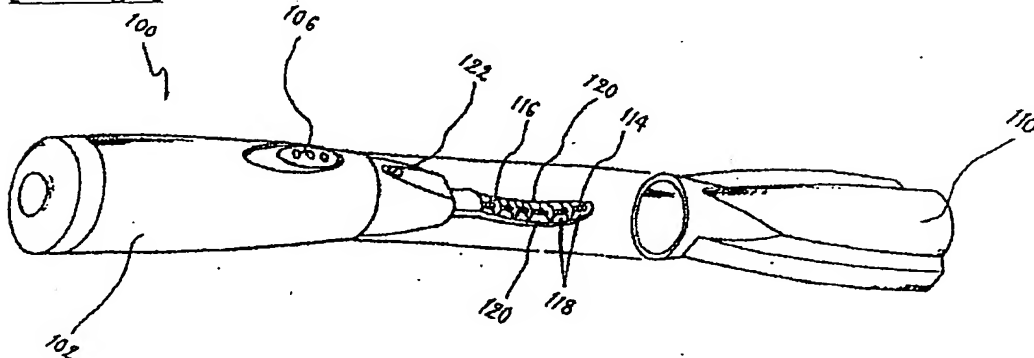
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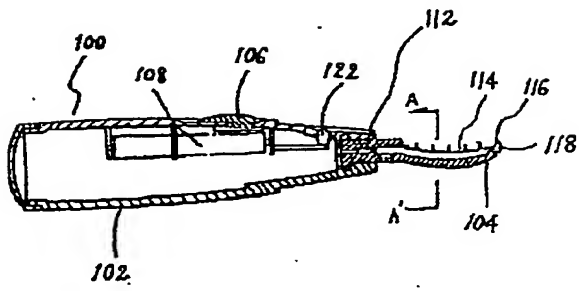
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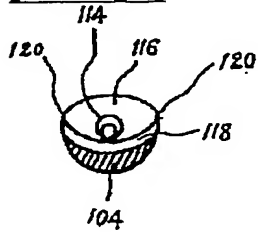
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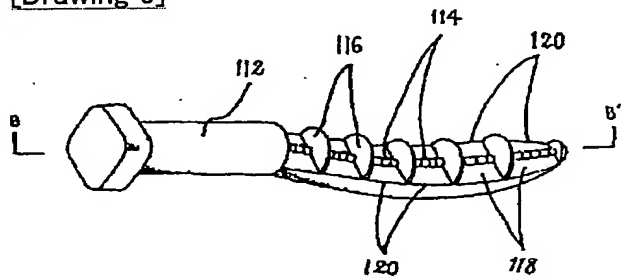
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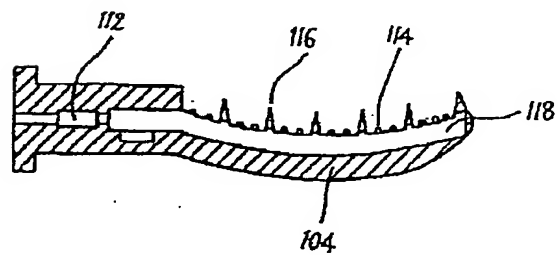
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[Drawing 6]

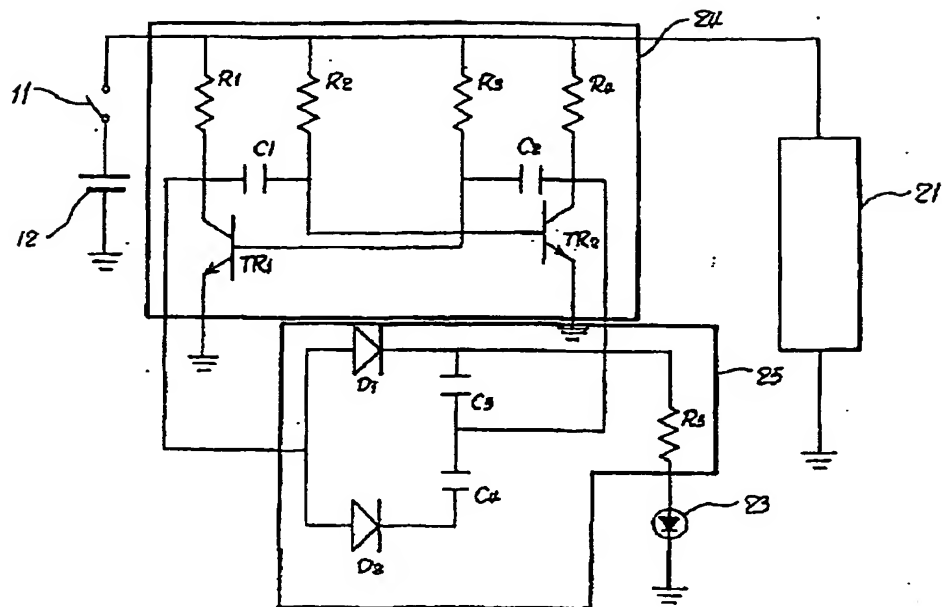


[Drawing 7]



[Drawing 8]





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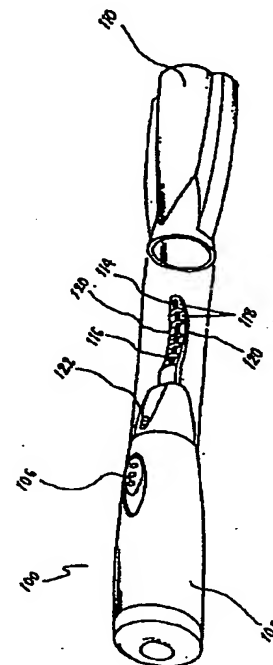
(74)代理人 弁理士 飯田 伸行

(54)【発明の名称】 まつげの成形具

(57)【要約】

【課題】 迅速にまつげの成形ができるようにし、熱伝導の状態を肉眼で容易に識別でき、マスカラが固まった後、まつげの成形支持部を利用して簡単に固定させる等、長時間成形状態を保てるようにする。

【解決手段】 つまみ部と保護キャップで結合された本体のつまみ部の内部に乾電池を内蔵させ、外面に設置された自動スイッチで先端部の加熱管と接続するようにし、加熱管の上端に表示ランプを形作り、一方の側に形成されたブラシ部に発熱線を巻いて形成した発熱体が挿入構成されたまつげ成形具において、上記の加熱管に連結して設置された、内側に熱減光性の顔料を配合して作ったシリコン部とその上端に発熱体を挿入して形成したブラシ部を眼球の屈曲に似せて湾曲して形成し、間間に上記の発熱体が露出できるように形成された安全突起を形成し、上記のブラシ部の左右両端に適当な円弧形をおびたまつげの成形支持部が形成されるように構成する。



## 【特許請求の範囲】

【請求項1】 つまみ部102と保護キャップ110で結合されている本体100のつまみ部102の内部に乾電池108を内蔵させ、外面に設置されている自動スイッチ106で先端部の加熱管112と接続するようにした。加熱管112の上端に表示ランプ118を形作り、一方の側に形成されているブラシ部104には発熱線を巻いて形成した発熱体114が挿入構成されているまつげ成形具において、

上記の加熱管112に連結して設置されている、内側に熱減光性の顔料を配合して作ったシリコン部118とその上端に発熱体114を挿入して形成しているブラシ部104を眼球の屈曲に似せて湾曲して形成し、間間に上記の発熱体が露出できるように形成された安全突起116を形成し、上記のブラシ部104の左右両端に適当な円弧形をおびたまつげの成形支持部120が形成されるように構成することを特徴とするまつげの成形具。

【請求項2】 第1項において、上記の本体100の内側には、電源を作動すると表示ランプ112を点灯させ、機器が異常なく作動していることを表示し、発熱線を0.3A-1Aの間の範囲の電力のみ消耗するようにし、長さを調節するとエンド・ボルテージである1.1Vまで100分またはそれ以上を維持することができるようにし、またエンド・ボルテージで表示ランプが点滅を繰り返すようにする回路あるいは表示ランプの色合いが変化するものを挿入して、乾電池の交換時期を知らせるようにする回路装置が構成されることを特徴とするまつげの成形具。

【請求項3】 第1項および第2項において、上記の本体100の内側には電源作動時、加熱管に連結して設置されているブラシ部104に形成された発熱体114の温度が8℃~120℃の間で一定に保つことができる回路装置を構成することを特徴とするまつげ成形具。

【請求項4】 第1項において、加熱管に連結して設置されているブラシ部104の上端には熱減光線の顔料を配合して作った熱伝導性が大変低いシリコン部118が形成され、発熱体114が一定温度にいたると色が変化するよう構成されていることを特徴とするまつげ成形具。

【請求項5】 第1項において、ブラシ部104の左右両端には3°内外の円弧状態をしたまつげの成形支持部120が形成されるように構成することを特徴とするまつげ成形具。

【請求項6】 第1項において、ブラシ部104の上端には熱減光性の顔料を配合して作ったシリコン部118に挿入して形成されている発熱線を巻いて作った発熱体114が露出するように適当な間隔に形成した半円形の安全突起116が形成されるという構成を特徴とするまつげ成形具。

【請求項7】 第1項および第2項において、上記の回

路装置は発熱線が0.3A~1Aの間の範囲の電力だけ消耗するように構成することを特徴とするまつげ成形具。

【請求項8】 第1項および第2項において、上記の回路装置はエンド・ボルテージである1.1Vまで100分またはそれ以上を保つように構成されていることを特徴とするまつげ成形具。

【請求項9】 第1項および第2項において、上記の回路装置はエンド・ボルテージで表示ランプが点滅を繰り返すようにし、乾電池の交換時期を知らせるように構成されていることを特徴とするまつげ成形具。

【請求項10】 第1項および第2項において、上記の回路装置はエンド・ボルテージで表示ランプの色合いが変化するものを挿入して、乾電池の交換時期を知らせるように構成したことを特徴とするまつげ成形具。

## 【発明の詳細な説明】

## 【0001】

【発明の属する技術分野】本発明は、まつげの成形具に関するもので、より詳しく言えば加熱管に連結して設置されているが、内側に熱減光性の顔料を配合して作ったシリコン部とその上段に発熱体が挿入されているブラシ部を眼球の屈曲に似せて湾曲させて形成し、上記のシリコン部の上部の表面は少し広めの間隔を保つように形成されているが、間間に上記の発熱体が露出するように構成された安全突起を形成して、上記のブラシ部の左右の両端が適当な円弧形になるようにまつげの成形支持部が形成されるようにして構成しており、実際の使用の時、それぞれ違う眼球の屈曲面を持っているユーザー全てのニーズを充足させることができるように一律的にかつ全体的にバランスがとれたまつげの成形を普遍的にできるようにし、また、迅速で簡単にまつげの成形ができるように早く加熱されるようにして、熱伝導の状態を肉眼で容易に識別することができるようにし、マスカラが固まった後、まつげの成形支持部を利用して簡単に固定させる等、どのような形のまつげの成形も容易にでき、長時間成形状態を保てるようにするまつげ支持部を設置し、結果的に本発明の技術を利用して生産したまつげの成形具全体の付加価値を向上させて、製品の商品性と品質は勿論のこと、併せて便宜性および信頼性等を向上することができるようにしたまつげの成形具に関するものである。

## 【0002】

【従来の技術】一般的に、今までのまつげの成形道具は、はさみ型の成形道具、熱を輻射した針や、成形液（例えば、マスカラ液）がついたブラシを使用して成形液をまつげに塗布してまつげを成形してきたが、上記のまつげばさみを使用する場合は、まつげが圧力を強く受けて抜けやすくなる問題がおき、上記の針のような金属に熱を輻射してまつげを成形する場合は、温度調節が適当でないと、まつげが焦げたり、目のまわりにやけどを

負う等の問題を引き起こし、また上記の成形液を使用する場合は、まつげがごわごわして自然にまつげが上がないので目のまわりが不自然な感じになる等の問題点があった。

【0003】それで、このような問題を解決しつつまつげの成形を容易にできるようにするために、いろいろ今までに出願された技術があるが、図1及び図2に図示されているように、本出願人が前に出願した韓国特許出願第96-24771号には、つまみ(10)とふたの部分(13)が結合している本体(1)のつまみ(10)の内部に、乾電池(12)を内蔵して、外面に設置されている作動スイッチ(11)で先端部の加熱管(20)と接続されるようにする。加熱管(20)の上端に表示ランプ(23)を形成し、一方の側に形作られている螺旋型のブラシ(22)の間間には発熱線を螺旋型に巻いて形作って発熱体(21)にカバーしたまつげの成形具が記述されている。

【0004】しかし、このように構成されている従来の発明は、ブラシ(22)の部位に連結して設置されている発熱体(21)が加熱され、ブラシ(22)を適切に熱してこそ効果的に使用することができ、これに伴い時間がかかることにより、消費者のニーズを十分に充足させることができないという問題を引き起こした。また人によってまつげがいろいろ不規則にはえているという特性をかんがみないで、上記のブラシ(22)を単純に一の字の形のねじ山方式で形成して、実際の使用時に大部分の使用者がまつげを効果的に成形してくれる発熱体(21)に、少ししか接触できなくなるので、結果的にまつげの成形が全体的に均一にしかも一定にならないという問題を引き起こし、発熱線(21)がブラシ(22)を加熱してくれる方式なので、消費者が使用する時、手で直接使用するかどうかの判断をしなければならぬ非安全的な方法を取らなければならないので、これによる不便さ等を引き起こす問題があったし、既存のブラシ(22)の部位は常時熱を発生し、まつげについているマスカラを溶かしてまつげをメンディングするという機能をしてくれるだけで、マスカラがついているまつげを固定させてくれたり固めてくれるというようなこれといった構造がなく、効果的な成形ができない問題等があり、結果的に従来の技術を利用して生産されるまつげの成形具全体の商品性と品質性にいろいろ難点を持たらすという問題があったのである。

【0005】

【発明が解決しようとする課題】従って、本発明は上記のような問題点を勘案して編み出したもので、実際の使用の時にそれぞれ違うふうなまつげがはえ、それぞれ違う眼球の屈曲面を持っている使用者全てのニーズを充足してくれるように一律的にかつ全体的にバランスがとれたまつげの成形を普遍的になすことができるようにし、また、迅速にまつげの成形ができるようにし、熱伝導の

状態を肉眼で容易に識別することができるようにし、容易にマスカラが固まるようにし、成形されたまつげを一定の形態に保ち続けることができるようにし、結果的に本発明の技術を利用して生産されるまつげの成形具の全体の付加価値を向上させる製品の商品性と品質は勿論、あわせて便宜性および信頼性等を向上することができるようにしたまつげの成形具を提供するのにその目的がある。

【0006】このような本発明の目的は、つまみ部と保護キャップで結合されている本体のつまみ部の内部に乾電池を内蔵し、外面に設置されている作動スイッチによって先端部の加熱管と接続するようにする。加熱管の上端に表示ランプを形成して、一方の側に形成されているブラシ部には発熱線を巻いて形成した発熱体が挿入されて構成されているまつげの成形具において、上記の加熱管に連結して設置されている、内側に熱減光性の顔料を配合して作ったシリコン部とその上端に発熱体を挿入して形成しているブラシ部を眼球の屈曲に似せて湾曲して形成し、間間に上記の発熱体が露出できるように形成された安全突起を形成し、上記のブラシ部の左右両端に適当な円弧形をおびたまつげの成形支持部が形成されるように構成したまつげの成形具を提供しようとするものである

【0007】上記の加熱管に連結して設置されている。内側に熱減光性の顔料を配合して作ったシリコン部とその上にNi-Cr線を巻いた発熱体を挿入して形作っているブラシ部を眼球の外部突出の屈曲と似た角度に湾曲して形成し、上記のブラシ部の上端部の凹入の一つの表面には広めの間隔を保つように形成されているが、間間に上記の発熱体が露出できるように形成されている安全突起を形作り、上記のブラシ部の両端の外側にまつげの支持部が形成されるように構成すればできあがる。

【0008】

【発明の構成及び作用】以下本発明の望ましい実施例を添付した図面に基いて、もう少し具体的に説明すると次のようである。

【0009】本発明は図3と図4、図5、図6、そして図7に示されているように、つまみ部(102)と保護キャップ(110)で結合している本体(100)のつまみ部(102)の内部に乾電池(108)を内蔵し、外面に設置されている作動スイッチ(106)で先端部の加熱管(112)と接続するようにする。加熱管(112)の上端に表示ランプ(122)を形成して、一方の側に形成されているブラシ部(104)には、発熱線を巻いて形成した発熱体(114)の間にシリコン部(118)が中間に挿入して構成されているものを表すまつげの成形具が形成されている。ですから、発熱体が8℃~120℃の温度を保つ反面、シリコン部は4℃~60℃の温度に熱くして効果的にまつげが成形できるだけでなく、適正温度で焼いてシリコン部の色合いが変わ

るという効果を持っている。

【0010】一方、上記の加熱管(112)に連結して設置されている。内側に熱減光性の顔料を配合して作った熱伝導性が大変低いシリコン部(118)の上端に発熱体(114)を挿入して形成しているブラシ部(104)を眼球の屈曲と似せて湾曲させて形成し、上記のシリコン部(118)の上部の表面には、まつげの成形がうまく形成できるよう少し広めの間隔を保つように形成されている。間間に上記の発熱体(114)が露出できるように形成されている安全突起(116)を形成し、上記のブラシ部(104)の左右両端には適当な円弧形になるようにまつげの支持部(120)が形成されている。また図8に図示されているように、上記の本体(100)の内側には電源を作動すると表示ランプ(118)が点灯し、機器が異常がなく作動していることを表示し、発熱線を0.3A-1Aの間の電力の消費だけで済むようにし、熱線の直径と長さを調節すれば、エンド・ボルテージである1.1Vまで100分またはそれ以上を保つことができるようにし、またエンド・ボルテージで表示ランプが点滅を反復するようにする回路あるいは表示ランプの色合いが変化するものを挿入して、乾電池の交換時期を知らせるようにする回路装置が構成されており、併せて発熱体の温度を8℃~120℃の間の範囲で一定に保ってくれる回路を挿入して、適正温度を保つようにする回路装置、または構成されているものである。

【0011】このように構成されている本発明は、上述したように、上記の加熱管(112)に連結して設置されている。内側に熱減光性の顔料を配合して作ったシリコン部の上端に構成された発熱体(114)を挿入して形成しているブラシ部(104)を眼球の屈曲に似せて湾曲させ形成し、上記のブラシ部(104)の上部の表面には、少し広めの間隔を保つように形成されている。間間に上記の発熱体(104)が露出できるように形成されている安全突起(116)を形成し、実際の使用時にそれぞれ違う方向にまつげがはえているので、違う眼球の屈曲面を持っている使用者全てのニーズを充足させてくれるように効率的でありかつ全体的にバランスがとれたまつげの成形を普遍的にできるようにし、電源の連結後、数秒以内に早く加熱されることにより、迅速に便利にまつげの成形ができるようにし、上記の発熱体(114)の下端に熱減光性の顔料を配合して作ったシリコン部(118)を形成して熱伝導の状態を肉眼で容易に識別することができるので、まつげの成形に容易な温度がわかるようにし、上記のブラシ部(104)の左右両端に円弧形のまつげの成形支持部(120)が形成されるように構成し、簡単にマスカラを固めることは勿論のこと、まつげを一定の形態に保ち続けることができるようにしており、上記の本体(100)の内側には、電源を作動すると表示ランプ(122)を点灯させて機器に

異常がなく作動していることを表示し、発熱線を0.3A-1Aの間の範囲の電力だけ消費するようにし、長さを調節するとエンド・ボルテージである1.1Vまで100分またはそれ以上を保つことができるようにし、またエンド・ボルテージで表示ランプが点滅を繰り返すようにする回路あるいは表示ランプの色合いが変化するものを挿入して乾電池の交換時期を知らせると同時に、発熱体の温度を8℃~120℃の間に一定に保つことができるようにしたものである。

10 【0012】

【発明の効果】従って、前で説明したように、本発明は加熱管に連結して設置されているが、内側に熱減光性の顔料を配合して作ったシリコン部の上端に発熱体を挿入して形成しているブラシ部を眼球の屈曲に似せて湾曲した形にし、上記のブラシ部の上部の表面は少し広い間隔を保つように形成されている。間間に上記の発熱体が露出できるように形成されている安全突起を形成し、上記のブラシ部の左右両端には適当な円弧形をおびたまつげの支持部が形成されるように構成され、実際の使用時にそれぞれ違う方向にまつげがはえたり各自違う眼球の屈曲面を持っている使用者の全てのニーズを充足させることができるように一律的にまた全体的にバランスのとれたまつげの成形を普遍的になすことができるようにし、また、迅速で簡単なまつげの成形を普遍的になすことができるようにし、熱伝導の状態を肉眼で容易に識別できるようにし、たやすくマスカラを固め、いかなる状態のまつげの成形も容易にできるだけでなく、長時間の成形状態を保ってくれるようにし、結果的に本発明の技術を利用して生産したまつげ成形具全体の付加価値を向上させ、製品の商品性と品質性は勿論、併せて便宜性及び信頼性等を向上させることができるようにした効果を持たらすようにしたものである。

【図面の簡単な説明】

【図1】 従来のまつげの成形具の外観状態を図示した分解斜視図である。

【図2】 従来のまつげの成形具の内部構造を図示した断面図である。

【図3】 本発明一実施例のまつげの成形具の外観状態を図示した分解斜視図である。

40 【図4】 本発明一実施例のまつげの成形具の内部構造を図示した断面図である。

【図5】 本発明一実施例のA-A'線の断面図である。

【図6】 本発明一実施例のまつげの成形具のチップ部分を図示した斜視図である。

【図7】 本発明一実施例のまつげの成形具のチップ部分を図示したB-B'線の断面図である。

【図8】 本発明一実施例の回路装置の構成を図示した回路図である。

50 【符号の説明】

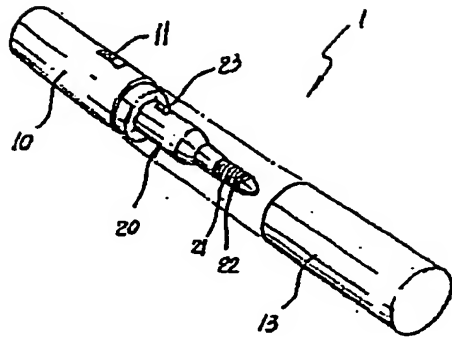
100: 本体  
104: ブラシ部  
108: 乾電池

102: つまみ部  
106: 作動スイッチ  
110: 保護キャップ \*

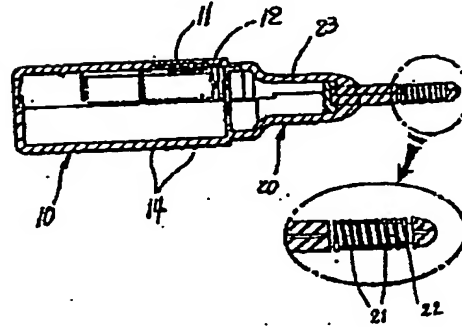
\* 112: 加熱管  
116: 安全突起  
120: まつげの成形支持部

114: 発熱体  
118: シリコン部  
122: 表示ランプ

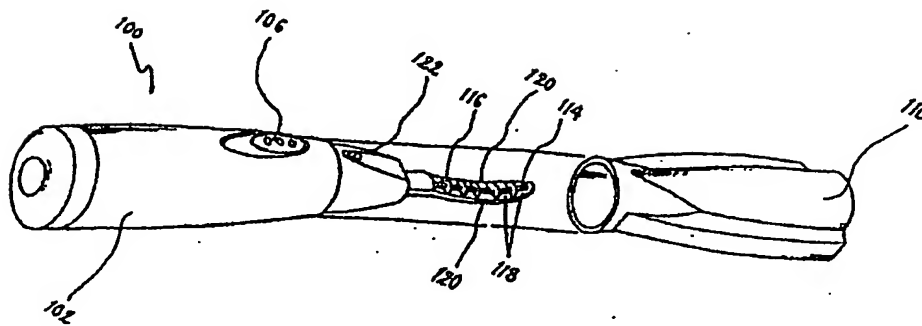
【図1】



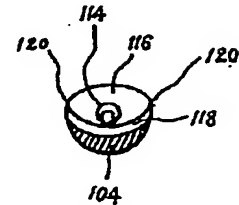
【図2】



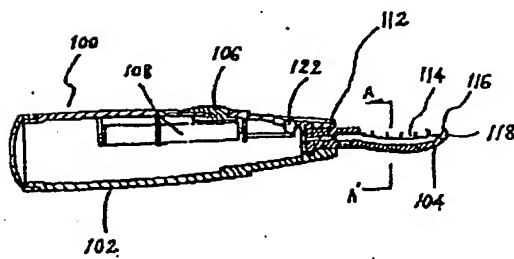
【図3】



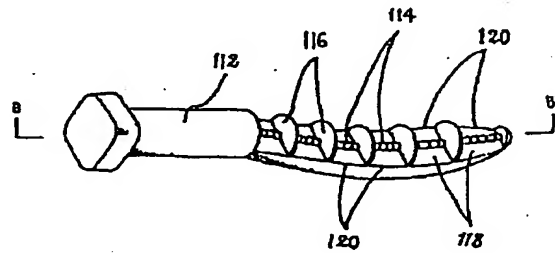
【図5】



【図4】



【図6】

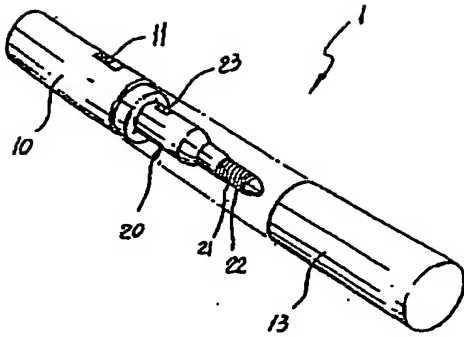


The circuit diagram shows a pulse generator. It includes a switch 11 and a battery 12 connected to the base of transistor TR1. Transistor TR1 has a collector resistor R1 and a base resistor R2. The collector of TR1 is connected to the base of transistor TR2. Transistor TR2 has a collector resistor R3 and a base resistor R4. The collector of TR2 is connected to a load 21. The emitter of TR2 is connected to a network of capacitors C1, C2, C3, and C4, and diodes D1 and D2. The output of this network is connected to a load 23 and a battery 25.

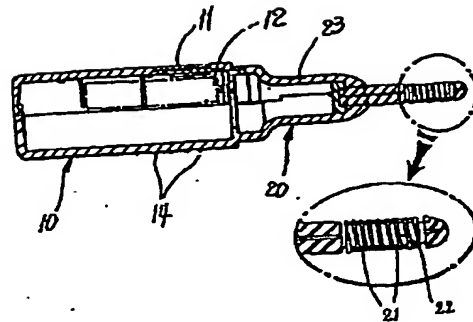
＊ 【補正内容】



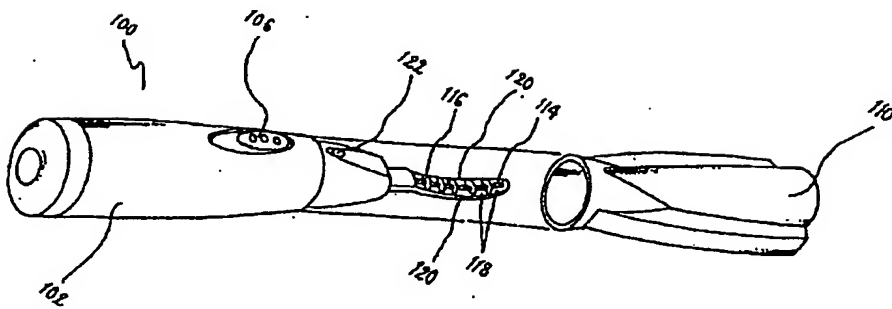
【図1】



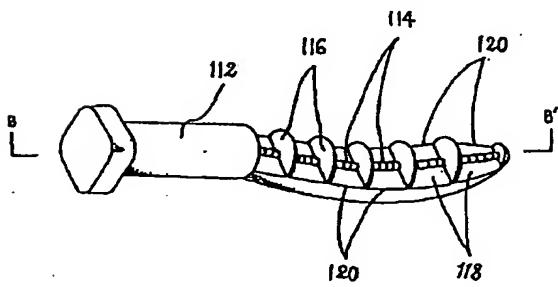
【図2】



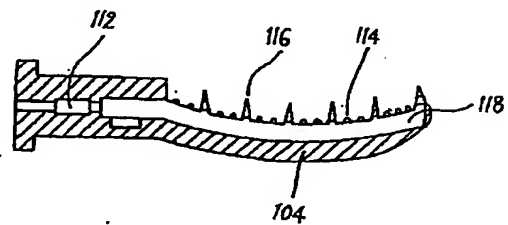
【図3】



【図6】



【図7】



【図8】

